

T. Larson

1635

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/214,371B

DATE: 05/10/2000
TIME: 10:19:43

Input Set : A:\4-20937.APP.txt
Output Set: N:\CRF3\05092000\I214371B.raw

5 <110> APPLICANT: Lane, David
7 Bottger, Volker
9 Bottger, Angelica
11 Picksley, Stephen
13 Chene, Patrick
15 Hochkeppel, Heinz-Kurt
17 Garcia-Echeverria, Carlos
19 Furet, Pascal
23 <120> TITLE OF INVENTION: Inhibitors of the Interaction of P53 and MDM2
27 <130> FILE REFERENCE: 4-20937/A/PCT
C--> 31 <140> CURRENT APPLICATION NUMBER: US/09/214,371B
C--> 33 <141> CURRENT FILING DATE: 1999-03-26
37 <150> PRIOR APPLICATION NUMBER: PCT/EP97/03549
39 <151> PRIOR FILING DATE: 1997-07-04
43 <160> NUMBER OF SEQ ID NOS: 83
47 <170> SOFTWARE: PatentIn Ver. 2.0
51 <210> SEQ ID NO: 1
53 <211> LENGTH: 19
55 <212> TYPE: PRT
57 <213> ORGANISM: Artificial Sequence
61 <220> FEATURE:
63 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
67 <400> SEQUENCE: 1
69 Pro Leu Ser Gln Thr Phe Ser Asp Leu Trp Lys Leu Leu Pro Glu
71 1 5 10 15
75 Asn Asn Val
83 <210> SEQ ID NO: 2
85 <211> LENGTH: 5
87 <212> TYPE: PRT
89 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
95 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
99 <220> FEATURE:
101 <223> OTHER INFORMATION: Where Xaa may be any amino acid
105 <400> SEQUENCE: 2
OK 107 Phe Xaa Xaa Leu Trp
109 1 5
115 <210> SEQ ID NO: 3
117 <211> LENGTH: 10
119 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
127 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
131 <220> FEATURE:
133 <223> OTHER INFORMATION: Xaa represents any amino acid and proline,
135 phenylalanine, aspartic acid, tyrosine ,
137 tryptophan and leucine are L-amino acids

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141 <220> FEATURE:
 145 <400> SEQUENCE: 3
 147 Pro Xaa Phe Xaa Asp Tyr Trp Xaa Xaa Leu
 149 1 5 10
 155 <210> SEQ ID NO: 4
 157 <211> LENGTH: 10
 159 <212> TYPE: PRT
 161 <213> ORGANISM: Artificial Sequence
 165 <220> FEATURE:
 167 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
 171 <220> FEATURE:
 173 <221> NAME/KEY: VARIANT
 175 <222> LOCATION: (1)
 177 <223> OTHER INFORMATION: x=proline, leucine, glutamic acid, cysteine or
 179 glutamine
 183 <220> FEATURE:
 185 <221> NAME/KEY: VARIANT
 187 <222> LOCATION: (5)
 189 <223> OTHER INFORMATION: x = arginine, histidine, glutamic acid, cysteine,
 191 serine or preferably aspartic acid.
 195 <220> FEATURE:
 197 <221> NAME/KEY: VARIANT
 199 <222> LOCATION: (6)
 201 <223> OTHER INFORMATION: x = histidine, phenylalanine, or preferably
 203 tyrosine
 207 <220> FEATURE:
 209 <221> NAME/KEY: VARIANT
 211 <222> LOCATION: (10)
 213 <223> OTHER INFORMATION: x=phenylalanine, glutamine or preferably leucine
 217 <220> FEATURE:
 219 <223> OTHER INFORMATION: Xaa at position 2, 4, 8 and 9 is any amino acid
 222 <400> SEQUENCE: 4
 224 Xaa Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa
 226 1 5 10
 232 <210> SEQ ID NO: 5
 234 <211> LENGTH: 10
 236 <212> TYPE: PRT
 238 <213> ORGANISM: Artificial Sequence
 242 <220> FEATURE:
 244 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
 248 <220> FEATURE:
 250 <221> NAME/KEY: VARIANT
 252 <222> LOCATION: (1)
 254 <223> OTHER INFORMATION: x = proline, leucine, glutamic acid, cysteine or
 256 glutamine
 260 <220> FEATURE:
 262 <221> NAME/KEY: VARIANT
 264 <222> LOCATION: (2)
 266 <223> OTHER INFORMATION: x = arginine, asparagine, alanine, threonine or

Input Set : A:\4-20937.APP.txt
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268         valine
272 <220> FEATURE:
274 <221> NAME/KEY: VARIANT
276 <222> LOCATION: (4)
278 <223> OTHER INFORMATION: X = methionine, isoleucine, threonine, arginine,
280     alanine or serine
284 <220> FEATURE:
286 <221> NAME/KEY: VARIANT
288 <222> LOCATION: (5)
290 <223> OTHER INFORMATION: X= arginine, histidine, glutamic acid, cysteine,
292     serine or preferably aspartic acid.
296 <220> FEATURE:
298 <221> NAME/KEY: VARIANT
300 <222> LOCATION: (6)
302 <223> OTHER INFORMATION: X = histidine, phenylalanine or preferably
304     tyrosine
308 <220> FEATURE:
310 <221> NAME/KEY: VARIANT
312 <222> LOCATION: (8)
314 <223> OTHER INFORMATION: X = glutamic acid, threonine, alanine,
316     phenylalanine or serine
320 <220> FEATURE:
322 <221> NAME/KEY: VARIANT
324 <222> LOCATION: (9)
326 <223> OTHER INFORMATION: X= glycine, glutamine, threonine, alanine or
328     aspartic acid
332 <220> FEATURE:
334 <221> NAME/KEY: VARIANT
336 <222> LOCATION: (10)
338 <223> OTHER INFORMATION: Xaa = phenylalanine, glutamine or preferably
340     leucine
344 <400> SEQUENCE: 5
346 Xaa Xaa Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa
348     1             5             10
354 <210> SEQ ID NO: 6
356 <211> LENGTH: 12
358 <212> TYPE: PRT
360 <213> ORGANISM: Artificial Sequence
364 <220> FEATURE:
366 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
370 <400> SEQUENCE: 6
372 Met Pro Arg Phe Met Asp Tyr Trp Glu Gly Leu Asn
374     1             5             10
380 <210> SEQ ID NO: 7
382 <211> LENGTH: 12
384 <212> TYPE: PRT
386 <213> ORGANISM: Artificial Sequence
390 <220> FEATURE:
392 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide

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396 <400> SEQUENCE: 7
398 Gln Pro Thr Phe Ser Asp Tyr Trp Lys Leu Leu Pro
400   1           5           10
406 <210> SEQ ID NO: 8
408 <211> LENGTH: 15
410 <212> TYPE: PRT
412 <213> ORGANISM: Artificial Sequence
416 <220> FEATURE:
418 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
422 <400> SEQUENCE: 8
424 Pro Arg Pro Ala Leu Val Phe Ala Asp Tyr Trp Glu Thr Leu Tyr
426   1           5           10           15
432 <210> SEQ ID NO: 9
434 <211> LENGTH: 28
436 <212> TYPE: PRT
438 <213> ORGANISM: Artificial Sequence
442 <220> FEATURE:
444 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
448 <400> SEQUENCE: 9
450 Met Pro Arg Phe Met Asp Tyr Trp Glu Gly Leu Asn Arg Gln Ile Lys
452   1           5           10           15
456 Ile Trp Phe Gln Asn Arg Arg Met Lys Trp Lys Lys
458           20           25
464 <210> SEQ ID NO: 10
466 <211> LENGTH: 8
468 <212> TYPE: PRT
470 <213> ORGANISM: Artificial Sequence
474 <220> FEATURE:
476 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
480 <220> FEATURE:
482 <221> NAME/KEY: VARIANT
484 <222> LOCATION: (2)
486 <223> OTHER INFORMATION: X = methionine, isoleucine, threonine, arginine,
488   alanine or serine, preferably methionine
492 <220> FEATURE:
494 <221> NAME/KEY: VARIANT
496 <222> LOCATION: (3)
498 <223> OTHER INFORMATION: X = arginine, histidine, glutamic acid, cysteine,
500   serine, or preferably aspartic acid.
504 <220> FEATURE:
506 <221> NAME/KEY: VARIANT
508 <222> LOCATION: (4)
510 <223> OTHER INFORMATION: X = histidine, phenylalanine, or preferably
512   tyrosine
516 <220> FEATURE:
518 <221> NAME/KEY: VARIANT
520 <222> LOCATION: (6)
522 <223> OTHER INFORMATION: X = glutamic acid, threonine, alanine,
524   phenylalanine or serine, preferably glutamic acid

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Input Set : A:\4-20937.APP.txt
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528 <220> FEATURE:
 530 <221> NAME/KEY: VARIANT
 532 <222> LOCATION: (7)
 534 <223> OTHER INFORMATION: X = glycine, glutamine, threonine, alanine or
 536 aspartic acid, preferably glycine.
 540 <220> FEATURE:
 542 <221> NAME/KEY: VARIANT
 544 <222> LOCATION: (8)
 546 <223> OTHER INFORMATION: X = phenylalanine, glutamine or preferably
 548 leucine.
 552 <400> SEQUENCE: 10
 554 Phe Xaa Xaa Xaa Trp Xaa Xaa Xaa
 556 1 5
 562 <210> SEQ ID NO: 11
 564 <211> LENGTH: 9
 566 <212> TYPE: PRT
 568 <213> ORGANISM: Artificial Sequence
 572 <220> FEATURE:
 574 <223> OTHER INFORMATION: Description of Artificial Sequence:peptide
 578 <220> FEATURE:
 580 <221> NAME/KEY: VARIANT
 582 <222> LOCATION: (1)
 584 <223> OTHER INFORMATION: X = arginine, asparagine, alanine, threonine or
 586 valine, particularly arginine.
 590 <220> FEATURE:
 592 <221> NAME/KEY: VARIANT
 594 <222> LOCATION: (3)
 596 <223> OTHER INFORMATION: X = methionine, isoleucine, threonine, arginine,
 598 alanine or serine, preferably methionine
 602 <220> FEATURE:
 604 <221> NAME/KEY: VARIANT
 606 <222> LOCATION: (4)
 608 <223> OTHER INFORMATION: X = arginine, histidine, glutamic acid, cysteine,
 610 serine or preferably aspartic acid.
 614 <220> FEATURE:
 616 <221> NAME/KEY: VARIANT
 618 <222> LOCATION: (5)
 620 <223> OTHER INFORMATION: Xaa = histidine, phenylalanine or preferably
 622 tyrosine.
 626 <220> FEATURE:
 628 <221> NAME/KEY: VARIANT
 630 <222> LOCATION: (7)
 632 <223> OTHER INFORMATION: X = glutamic acid, threonine, alanine,
 634 phenylalanine or serine, preferably glutamic acid.
 638 <220> FEATURE:
 640 <221> NAME/KEY: VARIANT
 642 <222> LOCATION: (8)
 644 <223> OTHER INFORMATION: X = glycine, glutamine, threonine, alanine or
 646 aspartic acid preferably glycine.

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY DATE: 05/10/2000
PATENT APPLICATION: US/09/214,371B TIME: 10:19:44

Input Set : A:\4-20937.APP.txt
Output Set: N:\CRF3\05092000\I214371B.raw

L:31 M:270 C: Current Application Number differs, Replaced Current Application Number
L:33 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:107 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2
L:107 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2
L:107 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2
L:147 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:3
L:147 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:3
L:147 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:3
L:224 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:346 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:554 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10
L:664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11
L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20
L:1004 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21
L:1050 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22
L:1096 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23
L:1142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24
L:1188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25
L:1234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26
L:1280 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27
L:1326 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28
L:1372 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29
L:1418 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30
L:1454 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31
L:1490 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32
L:1536 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33
L:1582 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34
L:1628 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35
L:1674 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36
L:1720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37
L:1766 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38
L:1812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:1858 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40
L:1904 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41
L:1950 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:1956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42
L:2048 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2054 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:2126 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46
L:2172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:2218 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:48
L:2264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:2310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:50
L:2356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51
L:2402 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52
L:2468 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53

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L:2534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54
L:2600 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:55
L:2666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56
L:2742 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57
L:2808 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58
L:2854 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59
L:2900 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60
L:2956 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61
L:3012 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62
L:3284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73